

In the Claims:

Please amend claims 1 and 10 as follows: (Attached hereto is a marked-up version of the changes made to the claims by the current amendment.)

1. (Amended) A method for treating material, said method comprising the steps of:

heating and pressurizing the material to a temperature between approximately 705°F and approximately 1500°F and a pressure of between approximately 20 atmospheres and approximately 200 atmospheres in a first chamber;

retaining said material in said first chamber at said temperature and said pressure to volatilize ^{said hazardous constituents from} a portion of said material;

transferring said ^{hazardous constituents} volatilized portion to a second chamber;

adding oxidant to said second chamber; and

oxidizing said ^{hazardous constituents} volatilized portion in said second chamber at a temperature between approximately 1000°F and approximately 1800°F and a pressure of between approximately 20 atmospheres and approximately 200 atmospheres, ^{to ensure complete} ^{oxidation of said}

^{hazardous constituents}

10. (Amended) A method for treating a material, said process comprising the steps of:

heating said material to a temperature between approximately 705°F and 1500°F to volatilize at least a portion of the material to separate the material into a volatile portion and a residue portion;

disposing said volatile portion in a chamber; and

hydrothermally treating said volatile portion to chemically convert at least a fraction of said volatile portion.

Please cancel claims 18-32 without prejudice.